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09/760,917	01/16/2001	Mohamed M. Haq	50016-2	4854
*****	7590 01/25/2007 D BROWN RAYSMAN (EXAMINER		
303 TWIN DOLPHIN DRIVE SUITE 600 REDWOOD SHORES, CA 94065			NAJARIAN, LENA	
			ART UNIT	PAPER NUMBER
RED WOOD OX			3626	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTUC	01/25/2007	PAR	ER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		09/760,917	HAQ, MOHAMED M.			
		Examiner	Art Unit			
		Lena Najarian	3626			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 🔀	Responsive to communication(s) filed on <u>06 No</u>	ovember 2006				
·	This action is FINAL . 2b) This action is non-final.					
•—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
		A parto quayro, 1000 cio. 11, 10				
Dispositi	on of Claims					
4)🛛	☐ Claim(s) 1,2,4-15,23,30-34 and 36-38 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)) Claim(s) is/are allowed.					
6)⊠	6)⊠ Claim(s) <u>1, 2, 4-15, 23, 30-34, and 36-38</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)[Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers						
9)☐ The specification is objected to by the Examiner.						
			Examiner.			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	inder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment	t(s)		• _ •			
	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice	te					
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6)						

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DETAILED ACTION

Notice to Applicant

1. This communication is in response to the amendment filed 11/6/06. Claims 1, 2, 4-15, 23, 30-34, and 36-38 are pending. Claims 1, 2, 4, 6-9, 11-15, 31-34, and 36 have been amended. Claims 3, 16-22, 24-29, and 35 have been canceled.

Claim Objections

2. The objection to claim 36 is hereby withdrawn due to the amendment filed 11/6/06.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-2, 4-8, 14-15, 30-34, and 36-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leet (6,000,828) in view of McIlroy (5,583,758).
- (A) Referring to claim 1, Leet discloses a computer system for assisting a medical practitioner, comprising (col. 19, lines 20-24 and Fig. 1 of Leet):

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medical practitioner input means for receiving new patient data regarding a patient, a diagnosis regarding the patient, and a treatment plan for the patient from a medical practitioner (col. 18, lines 28-54 of Leet);

comparing the diagnosis and the treatment plan against known patient data and known medical information; and for generating alarms if the diagnosis or treatment plan is inappropriate or advice regarding the diagnosis or the treatment plan (col. 1, lines 5-11, col. 17, lines 15-20, and col. 4, lines 22-34 of Leet);

second means for communicating the alarms and advice to the medical practitioner (col. 17, lines 15-20 of Leet; the Examiner interprets "alerting" to be a form of "alarms" and "approved treatment" to be a form of "advice"); and

third means for implementing at least a portion of the treatment plan (col. 17, lines 20-28 and col. 18, lines 49-54 of Leet).

Leet does not expressly disclose using a portion a portion of the new patient data to access a standard diagnosis database to obtain standard diagnosis criteria and to communicate the diagnosis criteria to the medical practitioner.

McIlroy discloses using a portion a portion of the new patient data to access a standard diagnosis database to obtain standard diagnosis criteria and to communicate the diagnosis criteria to the medical practitioner (col. 2, line 43 – col. 3, line 9 and Fig. 9b of McIlroy).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the aforementioned features of McIlroy within

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Leet. The motivation for doing so would have been to more efficiently collect and evaluate health care data (col. 1, lines 52-55 of McIlroy).

(B) Referring to claim 2, Leet does not expressly disclose wherein the first means comprises:

a suggest diagnosis means for accessing a suggested diagnosis database to retrieve a suggested diagnosis based on at least a portion of the new patient data; and

a check diagnosis means for comparing the diagnosis to the suggested diagnosis and for generating an alarm if there is a substantial difference.

McIlroy discloses a suggest diagnosis means for accessing a suggested diagnosis database to retrieve a suggested diagnosis based on at least a portion of the new patient data (Fig. 1 and col. 2, lines 43-48 of McIlroy); and

a check diagnosis means for comparing the diagnosis to the suggested diagnosis and for generating an alarm if there is a substantial difference (col. 8, lines 44-60 of McIlroy).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the aforementioned features of McIlroy within Leet. The motivation for doing so would have been to reassess the decision-path provided by the system (col. 2, lines 29-30 of McIlroy).

(C) Referring to claim 4, Leet discloses wherein the treatment plan includes a prescription and the first means comprises:

a get drug data means for retrieving from a pharmacy one or more drugs in the prescription for the patient and from the known patient data identification of

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drugs that the patient is taking; and an interaction checking means for accessing a drug interaction database with (a) the one or more drugs in the prescription for the patient, (b) the drugs that the patient is taking, and (c) the prescription, to produce an alarm if there is an indication of an interaction (col. 18, line 49 – col. 19, line 12 of Leet; the Examiner interprets "drug order" to be a form of "prescription" and "message" to be a form of "alarm").

- (D) Referring to claim 5, Leet discloses wherein the interaction checking means comprises mitigating means for suggesting methods to mitigate the interaction; and alternative recommendation means for suggesting alternative drugs with no interaction (col. 25, lines 18-61 of Leet).
- (E) Referring to claim 6, Leet discloses wherein the first means comprises: a get patient data means for retrieving the known patient data;
- a find treatment means for accessing a treatment protocol database and using a subset of the new patient data and a subset of the known patient data to determine a recommended treatment protocol (abstract of Leet).
- (F) Referring to claim 7, Leet discloses wherein the first means comprises:
 - a get patient data means for retrieving the known patient data;
- a treatment search means for accessing a treatment recommendation database and using a subset of the new patient data and a subset of the known patient data to determine a treatment individualization recommendation (col. 12, line 50 col. 13, line 1 of Leet).
- (G) Referring to claim 8, Leet discloses wherein the diagnosis comprises a prescription and the first means comprises:

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a get lab data means for obtaining laboratory results for the patient from a laboratory (col. 11, lines 36-40 of Leet);

a find dosage means for using the laboratory results, a subset of the known patient data, the prescription and new patient data in cooperation with a recommended dosage database to produce a recommended dosage for the prescription (col. 18, line 67 – col. 19, line 5 of Leet).

(H) Referring to claim 14, Leet discloses wherein the treatment plan comprises a prescription and the first means comprises:

a get drug data means for retrieving from a pharmacy one or more drugs prescribed for the patient and from the known patient data an identification of drugs that the patient is taking; and a drug cost means for accessing a drug cost database with (a) the one or more drugs prescribed for the patient, (b) the drugs that the patient is taking, and (c) the prescription, to produce an alarm if there is an indication that the patient is spending more on drugs than is necessary and to make a recommendation for a lower cost drug (col. 18, line 49 – col. 19, line 12 and col. 32, lines 35-49 of Leet).

- (I) Referring to claim 15, Leet discloses wherein the first means comprises a check risks means for accessing a risk database to produce a risk reduction recommendation for the patient (abstract, lines 1-9 of Leet; the Examiner interprets "rankings" to be a form of "recommendation").
- (J) Referring to claim 30, Leet discloses wherein the first means has access to one or more of the following:

a drug interaction database (col. 18, line 49 - col. 19, line 12 of Leet);

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a treatment protocol database (abstract, lines 1-4 of Leet);

a treatment recommendation database (col. 1, lines 9-11 of Leet);

a recommended dosage database (col. 18, line 67 - col. 19, line 5 of

Leet);

a drug cost database (col. 32, lines 35-49 of Leet); and

a risk database (abstract, lines 1-9 of Leet).

Insofar as the claim recites "one or more of," it is immaterial whether or not all of the elements are disclosed.

- (K) Referring to claim 31, Leet discloses wherein the third means comprises an International Classification of Disease (ICD) determination means for processing a subset of the new patient data, a subset of the diagnosis and a subset of the treatment plan to determine an ICD (col. 1, lines 23-28, col. 7, lines 39-46, and Table 1 of Leet).
- (L) Referring to claim 32, Leet discloses wherein the treatment plan comprises a prescription, an order, and an International Classification of Disease (ICD), and the third means comprises one or more of the following: a print prescription means for using the prescription to print a prescription form; an inform pharmacy means for using the prescription to inform a pharmacy of the prescription; a store data means for storing the new patient data on a hospital computer; an enter order means for entering the order in a physician order entry system; and a save ICD means for saving the ICD in a business office (col. 18, line 49 col. 19, line 18 and col. 34, lines 16-18 of Leet).

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(M) Referring to claim 33, Leet discloses a computerized method for providing assistance to a medical practitioner, the method being accomplished using a personal communicator, a computer processor coupled to the personal communicator through a communications medium, a data storage medium coupled to the computer processor, and resources coupled to the computer processor, the method comprising (col. 19, lines 20-24 and Fig. 1 of Leet):

entering new patient data into the personal communicator (col. 24, lines 6-7 and col. 18, lines 28-36 of Leet);

entering a diagnosis and a treatment plan into the personal communicator (col. 18, lines 28-54 of Leet);

comparing the new patient data, the diagnosis and the treatment plan against known patient data and against a medical database (col. 18, line 49 – col. 19, line 3 of Leet); and

enabling, through the personal communicator, the following actions: initiating implementation of the treatment plan (col. 17, lines 20-28 and col. 18, lines 49-50 of Leet); and

displaying an alarm and a recommendation, and allowing the medical practitioner to revise the diagnosis and treatment plan (col. 1, lines 5-11 and col. 17, lines 15-20 of Leet).

Leet does not expressly disclose using a standard diagnosis criteria database and a portion of the new patient data to determine standard diagnosis criteria and displaying the standard diagnosis criteria to the medical practitioner.

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McIlroy discloses using a standard diagnosis criteria database and a portion of the new patient data to determine standard diagnosis criteria and displaying the standard diagnosis criteria to the medical practitioner (col. 2, line 43 – col. 3, line 9 and Fig. 9b of McIlroy).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the aforementioned features of McIlroy within Leet. The motivation for doing so would have been to more efficiently collect and evaluate health care data (col. 1, lines 52-55 of McIlroy).

- (N) Referring to claim 34, Leet discloses wherein implementing the treatment plan comprises one or more of the following printing a prescription; informing a pharmacy of the prescription; storing the new patient data, the diagnosis, and the treatment plan on a hospital computer; entering an order into a physician order entry system; and saving an ICD in a business office (col. 34, lines 16-18 and col. 18, lines 54-66 of Leet).
- (O) Referring to claim 36, Leet discloses wherein the step of comparing comprises the following actions: checking the appropriateness of prescribed medication; reviewing recommended treatment protocols; reviewing individualization recommendations; recommending dose adjustments; checking for adverse medication interactions; and checking the cost of prescribed medications (col. 3, lines 26-40 and col. 18, line 57 col. 19, line 13 of Leet).

Insofar as the claim recites "one or more of," it is immaterial whether or not all of the elements are disclosed.

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(P) Referring to claim 37, Leet discloses accepting clinical notes regarding the patient (col. 3, lines 36-40 of Leet).

- 5. Claims 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leet (6,000,828) in view of McIlroy (5,583,758), and further in view of Portwood et al. (5,950,630).
- (A) Referring to claim 9, Leet discloses wherein the treatment plan comprises a prescription and the first means comprises (col. 18, lines 49-57 of Leet):

a get drug data means for retrieving from a pharmacy one or more drugs prescribed for the patient and from the known patient data an identification of drugs that the patient is taking and foods the patient typically eats (col. 18, line 49 – col. 19, line 12 and Table IV of Leet; the Examiner interprets "diet" to be a form of "foods the patient typically eats"); and

an interaction checking means for accessing a database with (a) the one or more drugs prescribed for the patient, (b) the drugs that the patient is taking, and (c) the prescription and (d) the foods the patient typically eats, to produce an alarm if there is an indication of an interaction (col. 18, line 49 – col. 19, line 12 and Table IV of Leet; the Examiner interprets "drug order" to be a form of "prescription" and "message" to be a form of "alarm").

Leet and McIlroy do not disclose that there is a drug/food interaction database.

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Portwood discloses drug-food interaction tests (col. 6, lines 63-67 of Portwood).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the feature of Portwood within Leet and McIlroy. The motivation for doing so would have been to ascertain if the drug regimen is within recommended ranges and to determine if any drug/food interaction problems exist (col. 6, lines 59-61 of Portwood).

- (B) Referring to claim 10, Leet discloses wherein the interaction checking means includes a recommendation means for recommending a drug that will not have an interaction (col. 25, lines 18-61 of Leet).
- 6. Claims 11-13 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leet (6,000,828) in view of McIlroy (5,583,758), and further in view of Evans (5,924,074).
- (A) Referring to claim 11, Leet discloses wherein the treatment plan comprises a prescription and the first means comprises:

a get drug data means for retrieving from a pharmacy one or more drugs prescribed for the patient and from the known patient data identification of drugs that the patient is taking; and a checking means for accessing a database with (a) the one or more drugs prescribed for the patient, (b) the drugs that the patient is taking, and (c) the prescription, to produce an alarm if there is an indication of an interaction (col. 18, line 49 – col. 19, line 12 of Leet; the Examiner interprets "drug order" to be a form of "prescription" and "message" to be a form of "alarm").

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Leet and McIlroy do not disclose a radiology/drug interaction database and radiology tests.

Evans discloses the usage of x-rays when prescribing medications (col. 5, lines 13-22 if Evans).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the feature of Evans within Leet and McIlroy. The motivation for doing so would have been for the physician to obtain additional clinical data, such as x-rays before recommending a treatment plan (col. 5, lines 40-46 of Evans).

(B) Referring to claim 12, Leet and McIlroy do not disclose wherein the treatment plan comprises an order for X-rays and the first means comprises a check X-rays means for obtaining laboratory results from a laboratory and for accessing an X-ray contraindication database with the laboratory results and the order for X-rays to produce a contraindication and to process the contraindication to produce an alarm.

Evans discloses wherein the treatment plan comprises an order for X-rays and the first means comprises a check X-rays means for obtaining laboratory results from a laboratory and for accessing an X-ray contraindication database with the laboratory results and the order for X-rays to produce a contraindication and to process the contraindication to produce an alarm (col. 5, lines 42-55, col. 12, lines 10-17 of Evans; the Examiner interprets "warning" to be a form of "alarm").

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At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the feature of Evans within Leet and McIlroy. The motivation for doing so would have been to alert the physician to investigate the effects of the treatment (col. 12, lines 17-19 of Evans).

(C) Referring to claim 13, Leet and McIlroy do not disclose wherein the check X-rays means processes the contraindication to produce a recommendation.

Evans discloses wherein the check X-rays means processes the contraindication to produce a recommendation (col. 12, lines 10-34 of Evans).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the feature of Evans within Leet and McIlroy. The motivation for doing so would have been to allow the physician to investigate the effects of the medication and select another medication from the list (col. 12, lines 10-34 of Evans).

(D) Referring to claim 38, Leet and McIlroy do not disclose wherein accepting the clinical notes comprises recording a spoken rendering of the clinical notes.

Evans discloses wherein accepting the clinical notes comprises recording a spoken rendering of the clinical notes (col. 9, lines 1-4 of Evans; the Examiner interprets "physician's dictation" to be a form of "spoken rendering of the clinical notes").

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the feature of Evans within Leet and McIlroy. The motivation for doing so would have been to include patient data in a variety of data types generated by healthcare providers (col. 8, lines 65-66 of Evans).

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7. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over

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Leet (6,000,828) in view of McIlroy (5,583,758), and further in view of Barry et al.

(6,081,786).

(A) Referring to claim 23, Leet and McIlroy do not disclose further comprising a

personal communicator including a display having a red alert area, where alarms

regarding the potential for a major adverse effect are displayed; and a yellow

alert area, where alarms regarding the potential for a minor effect or need for

closer monitoring are displayed.

Barry discloses a personal communicator including a display having a red

alert area, where alarms regarding the potential for a major adverse effect are

displayed; and a yellow alert area, where alarms regarding the potential for a

minor effect or need for closer monitoring are displayed (col. 14, lines 16-22 &

43-47 of Barry).

At the time of the invention, it would have been obvious to a person of

ordinary skill in the art to combine the feature of Barry within Leet and McIlroy.

The motivation for doing so would have been to provide an instant graphical

warning level (col. 14, lines 42-43 of Barry).

Response to Arguments

8. Applicant's arguments with respect to claims 1 and 33 have been

considered but are most in view of the new ground(s) of rejection.

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Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited but not applied prior art teaches a method and apparatus for facilitating delivery of medical services (US 2002/0019749 A1).

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lena Najarian whose telephone number is 571-272-7072. The examiner can normally be reached on Monday - Friday, 8:30 am - 5:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Thomas can be reached on 571-272-6776. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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